

CLAIMS

Sub B1
1. A method for use in a mobility gateway for forwarding a call directed to a roaming subscriber unit, the method comprising:

5 storing, at the mobility gateway, a plurality of temporary transfer-to telephone numbers; and

selecting, for association with the roaming subscriber unit, one of the temporary transfer-to telephone numbers.

10 2. The method according to claim 1, wherein the temporary transfer-to telephone number is homed on a mobile switching center that is different from a mobile switching center serving the roaming subscriber unit.

15 3. The method according to claim 1, further comprising:
sending a message having the temporary transfer-to telephone number to a mobile switching center serving the roaming subscriber unit.

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20 4. The method according to claim 3, further comprising:
after selecting and sending, receiving and storing information related to a call request for the roaming subscriber unit; and
after receiving and storing, receiving a location request message or the like from a mobile switching center which homes the temporary transfer-to telephone number.

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25 5. The method according to claim 4, further comprising:
associating the location request message with the call request for the roaming subscriber unit.

6. The method according to claim 4, further comprising:
associating the location request message with the call request for the roaming
subscriber unit based at least in part on the temporary transfer-to telephone number.

5 7. The method according to claim 5, further comprising:
after associating, sending a redirection request message to a gateway mobile
switching center which received the call request.

10 8. A mobility gateway for use in connection between an ANSI-41-based
network and a GSM-based network, the mobility gateway comprising:
a processor;
memory for storing a plurality of temporary transfer-to telephone numbers
homed on one or more mobile switching centers (MSCs);
said processor being operative for:
15 selecting one of the plurality of temporary transfer-to telephone numbers
for association with a roaming subscriber unit.

20 9. The mobility gateway according to claim 8, wherein the selected
temporary transfer-to telephone number associated with the roaming subscriber unit is
homed on an ANSI-41 MSC different from a GSM MSC serving the roaming subscriber
unit.

25 10. The mobility gateway according to claim 8, wherein said processor is
further operative for:
sending a message having the temporary transfer-to telephone number to a GSM
MSC serving the roaming subscriber unit.

11. The mobility gateway according to claim 10, wherein said processor is further operative for:

after selecting and sending, receiving and storing information related to a call request for the roaming subscriber unit; and

5 after receiving and storing, receiving a location request message from an MSC which homes the temporary transfer-to telephone number.

12. The mobility gateway according to claim 11, wherein said processor is further operative for:

10 associating the location request message with the call request for the roaming subscriber unit.

13. The mobility gateway according to claim 11, wherein said processor is further operative for:

15 associating the location request message with the call request for the roaming subscriber unit based at least in part on the temporary transfer-to telephone number.

14. The mobility gateway according to claim 12, wherein said processor is further operative for:

20 after associating, sending a redirection request message to an ANSI gateway MSC which received the call request.

15. A method for use in forwarding a call intended for a subscriber unit, comprising:

receiving and storing information related to a call request for a roaming subscriber unit;

5 after receiving and storing, receiving a location request message from a mobile switching center which homes a temporary transfer-to telephone number associated with the roaming subscriber unit;

associating the location request message with the call request for the roaming subscriber unit; and

10 after associating, sending a redirection request message to a gateway mobile switching center which received the call request for the roaming subscriber unit.

16. The method according to claim 15, further comprising, prior to receiving and storing the information related to the call request:

15 selecting the temporary transfer-to telephone number for association with a roaming subscriber unit; and

sending a message having the temporary transfer-to telephone number to a mobile switching center serving the roaming subscriber unit.

20 17. The method according to claim 15, further comprising:

wherein the receiving and storing of information related to the call request includes receiving and storing information comprising subscriber identification information and call identification information; and

25 wherein sending the redirection request message includes sending the call identification information.

18. The method according to claim 15, further comprising:
wherein receiving the location request message comprises receiving the
temporary transfer-to telephone number; and
wherein associating the location request message with the call request comprises
5 associating based on the temporary transfer-to telephone number.

19. A method for use in a mobility gateway, comprising:
selecting a telephone number for association with a roaming subscriber unit;
sending a message having the telephone number to a mobile switching center
10 serving the roaming subscriber unit;
after selecting and sending, receiving and storing information related to a call
request for the roaming subscriber unit;
after receiving and storing, receiving a location request message from a mobile
switching center which homes the telephone number;
15 associating the location request message with the call request for the roaming
subscriber unit; and
after associating, sending a redirection request message to a gateway mobile
switching center which received the call request for the roaming subscriber unit.

20. The method according to claim 19, further comprising:
wherein the receiving and storing of information related to the call request
includes receiving and storing information comprising subscriber identification
information and call identification information; and
wherein sending the redirection request message includes sending the call
25 identification information.

method according to claim 19, wherein the mobile switching center comprises an ANSI gateway mobile switching center.

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